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§ 199. **Danthonia Faxonii**, *n. sp.*—Culmo cæspitoso valido rigido teretiusculo sesqui-bipedali simplici vel raro ramulo singulo subincluso ex articulatione superiore progrediente; foliis mediocriter longis latiusculis circa 13-nervatis (nervibus in siccis utrinque prominulis) planis vel siccitate convolutis nudis, ligula pilosa; panícula subdecomposita, spiculis (circa 15) floribus 6–7 gerentibus, glumis magnis flores superantibus 5-nervatis, paleis ut in *D. spicata*, BEAUV. (7-nervatis, etc.). Notch of the White Mountains, New Hampshire (associated with *D. compressa*, AUST.), Sept. 3d, 1877 (scarcely mature), *C. E. Faxon*. This species is nearer to *D. spicata* than to any other known to me; but that has a more slender, always *simple*, culm, narrower, more convolute *hairy* leaves, a more simple panicle, with the spikelets and glumes rather smaller. Furthermore, it matures much earlier (by the middle of July). *D. Alleni*, AUST., is larger, with more branched culms, broader leaves, with the nerves prominent only on the underside; panicle larger, palea, with the awn longer and less twisted when dry, glumes shorter, etc.

With our other species, *D. sericea*, NUTT., and *D. compressa*, AUST., it is not possible to confound it. C. F. AUSTIN.

§ 200. New Musci.

Archidium Donnellii, *n. sp.*—Proxime accedit ad *A. Ohioensem*, SCHIMP.; differt tamen statura robustiore, colore stramineo-vel lutescente-viridi, foliis tenuioribus subscariosis cellulis multum minus distinctis subechlorophyllosis, flore masc. in ramulo magis minusve elongato subgracili terminali.—Hampten County, Va., April, 1877.—*J. Donnell Smith*.

By the inflorescence this species is allied to *A. Hallii*, AUST.; but that has the leaves much more loosely reticulated, etc.

Bartramia radicalis, BEAUV., Var. **Porteri**.—*B. Porteri*, AUST., Mss.—A forma normali differt; pedicello dimidio brevior, capsula siccitate globosa paulo inclinato (haud horizontali) indistinctius costata, membrana exteriore laxiore, peristomio dentibus solidioribus (semper?) processibus longioribus? ciliis nullis? On wet rocks and banks, Western Pennsylvania, *Garber* in Herb., Porter; Rockdale (Lehigh Valley) *Wolle*; Oneida, New York, *Warne*; Ohio, *Dr. Beardslee*, *Miss Biddlecome*.

Apparently a distinct species; but the shape and texture of the leaves and the inflorescence are as in the typical *B. radicalis* from the South. C. F. AUSTIN.

§ 201. **A new Cheilanthes**.—I have detected, among some specimens of *Cheilanthes Cooperæ* sent out by Dr. Parry, a new species to which I have given the name of *C. viscida*—the Sticky Lip-Fern—on account of the peculiar viscid glands with which the whole plant is so profusely covered, that, if placed in warm water, it soon converts it into a thick glutinous liquid. Even in the dried state the plants are so sticky that the fronds adhere together in a brittle mass, and it is extremely difficult to separate them without their crumbling all to pieces. I submit the following description as the best I am able to give from the meagre specimens at hand: